

Department of Public Works and Transportation

DIVISION OF SOLID WASTE SERVICES



Mixed paper collection in Damascus

MONTHLY REPORT

JANUARY 2000



Printed on Recycled and Recyclable Paper

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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, during the fiscal years to date (FY Total), and during the current calendar month in the two prior fiscal years. (County fiscal year 2000 began July 1, 1999.)

FACILITY	Jan FY 00	FY 00 Total	Jan FY 99	Jan FY 98
Materials Recycling Facility ⁽¹⁾	4,087 Tons	34,308 Tons	4,668 Tons	4,782 Tons
Brunswick Landfill Facility	8,978 Tons	80,799 Tons	11,156 Tons	11,465 Tons
American Ash Recycling ⁽²⁾	2,773 Tons	20,831 Tons	N/A	N/A
Resource Recovery Facility ⁽³⁾	37,431 Tons	287,367Tons	38,072 Tons	37,040 Tons
Yard Trim Compost Facility	205 Tons	40,873 Tons	469 Tons	440 Tons

⁽¹⁾For FY00, MRF tons reported are outgoing. For previous years, incoming was reported.

⁽²⁾Tons shipped out to ash recycling facility during the indicated period. All tons so shipped are recycled.

⁽³⁾RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here. For FY00, these tonnages are preliminary, with adjustments made in the December and June monthly reports.

Revenue Analysis and Systems Evaluation – Worked with OMB and Finance on revisions to FY01 through FY06 rate and fiscal health models. Researched MRF access fee in relation to FY01 budget and rates. Presented the FY99 Recycling Rate Calculation Report to SWAC. Completed DSWS Program Measures and submitted to OMB. Sent out reporting reminders to all licensed haulers, fielded calls regarding reporting requirements, and entered early hauler report data into newly developed Access database. Continued to develop and apply internal controls to assure accuracy of tonnage reporting. Coordinated in-house effort to gather recycling data from self-haulers and processors. Prepared half-year system-wide revenue review. Variable rate study: internal meetings were conducted with attorneys to clarify charge allocation issues, drafted findings, searched internet for latest technologies applied in variable rate, and interviewed added jurisdictions with variable rate experience.

CITIZEN COMMITTEES

Facilities Implementation Group (FIG) – The FIG meeting was held in conjunction with the public briefing for the Risk Management Plan for the RRF. The public briefing was completed without requests for additional information before the FIG meeting was opened on January 18. The Group discussed the County's complaint process and requested monthly updates. The Dickerson Master Plan budget for FY01 was summarized as were the Master Plan and the Agreement of Settlement and Compromise between the County and Sugarloaf Citizens Association. A request was made for a representative from the Local Emergency Planning Council and/or the County Department of Fire and Rescue Services to speak at a future meeting. The next meeting is scheduled for February 15, 2000.

Solid Waste Facilities Master Plan – SCS completed drafts of the Analysis of Facility Traffic and Transportation Demand Management Program in February 1999, and they will be distributed for comment to FIG members. The groundwater monitoring base maps are complete, and monitoring of groundwater and well water continues. An outline of the traffic safety training for facility contractors will be distributed to FIG.

Solid Waste Advisory Committee – SWAC met on January 18 at the Executive Office Building. The committee was briefed on the following topics: Capital Budget, Mixed Paper Recycling, and the Recycling Rate Calculation. A public hearing on the Solid Waste Plan Amendment is scheduled for February 8, 2000 at 2:00 p.m. The next meeting is scheduled for Saturday, February 19.

COLLECTIONS

Refuse – There were 3 days in January that snow caused cancellation of the scheduled collections: Tuesday, January 25, Wednesday, January 26 and Monday, January 31. All refuse was collected by the Saturday of each week.

Recycling – Mixed paper recycling in Areas 6 and 10 (25,241 homes) began on Monday, January 24. A snowstorm that evening cancelled all recycling for the remainder of the week. The following week's tonnage for recycling was approximately double the normal weight, indicating that residents saved their recycling for the next collection day.

Contractor Performance – There were only 5 complaints not resolved by the contractors. The County corrected all 5 issues. The number of complaints received this month totaled 236. This represents the lowest number of

complaints for any month in the past 5 years. This also represents a 41% reduction from last year, which had a total of 400 complaints.

Enforcement Actions – No tickets were written.

Customer Service – There were over 7,895 incoming calls with 510 follow-up calls (as a quality control check) handled by the Customer Service Staff. Also, there were 1,021 bins delivered.

Volunteer Activities – The Master Recycler/Composter program volunteers contributed 135.5 hours of service and reached approximately 1,227 residents. The volunteers handled 854 calls to the Recycling Hotline with an additional 132 calls coming into the answering machine. Of the 854 calls received, 314 were residential issues mostly caused by weather. The volunteer activities included mixed paper drop-offs at Damascus on Saturday, January 8 and Potomac and Bethesda on Saturday, January 22.

WASTE MINIMIZATION

Drop-off Programs – The IFB for textile recycling was issued in January and bids will be evaluated in mid February. Pallet research has yielded a large database of Maryland-based companies that could do pallet recycling.

Department of Environmental Protection's Home Composting and Source Reduction Activities – Participated in the 15th Annual Conference for the Maryland Association for Environmental and Outdoor Education in Annapolis. Key issues included green schools and green buildings with a strong emphasis on waste reduction and recycling. Other issues were alternative landscaping techniques, the majority of which focused on replacing resource-intensive planting materials with native species, mulch areas and related concepts, all of which reduce water and nutrient inputs and result in zero-emission landscapes (no clippings or trimmings are removed).

Provided several composting and worm composting workshops, including Master Gardener training.

Began final design and layout of the Montgomery County Environmental Assessment 2000 Report, including development of presentation charts and illustrations. The draft Assessment Report is also available on the DEP website: www.co.mo.md.us/dep.

Ongoing website development including development of website illustrations and icons.

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste Collection – Twenty-five (25) citizens who could not attend the next scheduled event visited the Transfer Station to drop off household hazardous waste. The HHW schedule for March through June is being developed.

Small Quantity Generator (Ecowise) Program – One Ecowise event was held in January. Nine companies attended.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility: CEM Tracking of RRF Operations - The Continuous Emissions Monitoring System (CEM) indicated that units 1 and 2 have been operating continuously throughout the month. On January 19 at about 4PM, a transformer in the switchyard was damaged resulting in an explosion. The Facility was disconnected from PEPCO and the turbine was brought offline which cutoff export of electricity to PEPCO. Repairs were completed by 2PM on January 22 when the turbine was restarted and export of electricity to PEPCO resumed. This incident interrupted export of electricity to PEPCO for approximately 3 days and probably affected the CEM telephone line for a couple of hours, but did not affect unit operations or stack emissions.

CD-ROMs are being updated to include CEM data up to January 31, 2000. Ten copies of the CDs will be generated for distribution to staff and citizen committees, including SWAC and FIG.

Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology – The Leachate Thermal Treatment System (LTTS) operated continuously from January 3 through January 20, when it was shut down due to damage to insulation. The contractor is in the process of completely refurbishing the ground flare with new insulation. Ceramic brick will be installed about the middle of February to withstand the high temperatures and moisture. Until January 20, the Facility has been evaporating leachate at the rate of nine gallons per minute utilizing approximately 1,800 cubic feet per minute of landfill gas. The average methane concentration remains at 50% with oxygen levels of less than one percent.

Yard Trim Composting Facility: Consent Agreement - The Consent Agreement was received from the Maryland Department of Environment (MDE) on January 21. The Office of the County Attorney reviewed the document and signed off on it. On January 27, the document was forwarded to the Assistant Administrative Officer for signature. On January 26, ENSR submitted the Fall Quarterly Report for the sampling program conducted under the One-Year Evaluation Program required by the Consent Agreement. Results from the summer and fall sampling programs indicated no exceedances of BOD or TSS

permit limits. The sampling program will continue through the end of May 2000. DSWs plans to meet with MDE in September 2000 to discuss the results of the program.

Contractual Work – ENSR submitted the draft report on the RRF Non-Air Media Ambient Sampling Program for distribution to SWAC and FIG. ENSR continues work on the RRF Ambient Air Sampling Report, Cumulative Impact Study and Epidemiological Study. The following draft reports are available for distribution to FIG:

1. Quarterly Reports on the "Consent Agreement One-Year Evaluation Program" conducted at the Montgomery County Yard Trim Composting Facility (YTCF).
2. Updated Dispersion and Deposition Modeling Analysis for the RRF.
3. Review of RRF non-air media sampling results and ENSR's recommendations.

RECYCLING

Public Outreach – The comprehensive outreach campaign on recycling, including radio and TV spots, transit and print ads, continues to run. Two new print executions are being developed for the campaign. The results from the focus group sessions conducted are being used to determine and pursue ways to increase participation in the mixed paper recycling program.

The SORRT awareness campaign continues. Response has been strong. Calls regarding business recycling and the SORRT Program have increased since the campaign began. The campaign includes a 30-second TV advertisement, two 60-second radio spots, transit advertisements and print advertisements.

Commercial Recycling and Waste Reduction – Three Program Specialist Term Positions have been filled, and these staff members came on board in January. They are being taken through a training course with senior/supervisory staff. Site visits and on-site consultations continued to be provided during the month. Staff is in the process of sending a second reminder (in the form of a postcard) to large and medium-sized organizations for annual report forms due on February 1 and March 1.

Staff is still consistently working with the MCPS System in support of their rejuvenated recycling program. Two (2) staff members are working full-time and 3.5 staff members are working at least half-time on recycling in the public schools. Materials are being printed and provided to the school administrators, teachers and building services staff. Staff is meeting with and training school recycling coordinators and involved staff of each school, using the school

cluster system. The media campaign continued to get positive feedback, and DSWS has received requests from some businesses to join the SORRT Program.

Multi-Family Recycling – The T.R.R.A.C. (Think Reduce and Recycle at Apartments and Condominiums) Program is under development. This program is being established to help support the property management companies as well as motivate the residents to recycle more and more efficiently as we work toward our goal of recycling 50%. Through this program, a newsletter, seminars, and an awards program will be provided to motivate and assist the properties. DSWS continues to conduct a bin effectiveness study, which seems to be showing some promise toward determining if blue bins are indeed effective in multi-family dwellings.

Mixed Paper Recycling – Additional outreach materials in support of the mixed paper recycling program are under development. These include: translations of mixed paper recycling dos and don'ts into Spanish and other languages, refrigerator magnets and vinyl stickers for blue bins.

FACILITY ACTIVITIES

Yard Trim Compost Facility – Phase I of the pilot for tubgrinding of screening rejects is in progress but there was no site activity in January. Phase 1 allows for grinding of material from the 1998 batch (contains no storm debris). Phase 2, the grinding of the 1999 batch containing storm debris, requires additional approval from Sugarloaf Citizens Association before proceeding. There are currently 10,822 cubic yards (cy) of storm debris on site (7,662 cy of 1999 and 3,160 cy of 1998)

Bagging of Leafgro continues, weather permitting, at the Transfer Station. Zero bags were produced and 1,800 bags were shipped.

There were 205 tons of leaves received for processing, and 1,893 cubic yards of Leafgro were sold.

Resource Recovery Facility – Operations for the month generally consisted of two boilers operating at 100% capacity. Unit #3 was offline all month. There were 37,431 tons of waste processed at the Facility.

The Facility had no boiler outages during the month. On January 19, a potential transformer (PT) in the Facility substation failed, resulting in an explosive destruction of the PT. The Facility was automatically disconnected from PEPCO and rolled back to "in-house load." The control room personnel called 9-1-1 to report the transformer failure and Fire and Rescue teams were dispatched from the Beallsville station and Carroll Manor, the Frederick County station that is back-up to Beallsville. In addition, the HazMat team from Bethesda was dispatched to the Facility. The Beallsville station personnel

arrived in approximately five minutes and the HazMat teams arrived in approximately 35 minutes. After surveying the substation and the Facility, all fire and rescue personnel left the Facility.

Ogden, PEPCO personnel and a contractor retained by Ogden started assessments, clean up and repairs immediately. The explosive nature of the PT failure damaged some equipment in the vicinity. Seriously damaged equipment was replaced with new equipment and some equipment was repaired and re-installed. All equipment was tested to the satisfaction of Ogden and PEPCO before being placed back in service and the Facility was reconnected to PEPCO.

To finalize some repairs and cleaning, the turbine/generator was removed from service on January 22 to de-energize certain equipment. The Facility was reconnected to PEPCO later the same day. A separate report of the incident is being developed.

The Facility sold 20,597 MWH during the month, for approximately \$60,000 in revenues.

CSX rail service continues to be inconsistent and unacceptable on some days. CSX management has responded to the Authority's letters and discussions are continuing.

There were 83 tons of yard material shipped for the compost site by the rail system.

Approximately 2,773 tons of ash was shipped to the American Ash Recycling, Inc. facility in York, PA for recycling.

There were no reportable air or water quality excursions during the month. Quarterly reports for air emissions and water discharges were delivered to the appropriate agencies.

Ash characterization test results were finalized and indicated full compliance with TCLP requirements.

CEM software (installed to complete the Y2K upgrades) is working properly and reports are being generated as anticipated. The CD-ROM database was updated and copies are being distributed.

Four tours were given to approximately 30 people, including new County employees, Tiger Scouts and visitors from the Philippines.

Materials Recovery Facility – Approximately 1,947 tons of old newspaper, 1,372 tons of commingled material and 768 tons of mixed paper were shipped out after processing at the Materials Recovery Facility.

Design drawings for the west wing expansion are 30% complete and have been submitted to the County for review.

Construction work started in the main processing building associated with the mixed paper program. The existing floor slab was demolished. The footer for the new push wall was excavated and poured.

Oaks Landfill – The contractor for the Phase II closure construction, Barbella Environmental Technology, Inc., shut down most operations for winter. Limited work on gabion down chutes and drainage channels continues. Barbella is approximately 80% complete with the construction work (about 65 acres on the eastern side of the landfill). Using a full complement of personnel and equipment, construction is scheduled to recommence in March.

Cherry Hill Construction, the contractor for the Phase I closure construction (about 68 acres on the western side of the landfill), shut down for the winter. Cherry Hill is approximately 40% complete with the construction work. Work is scheduled to recommence in early March.

DSWS requested SCS Field Services to provide a proposal for an additional extraction well to achieve further reductions in methane migration on the northern side of the landfill. All information and field data is being shared with DEP.

Transfer Station – Ogden Martin shipped via rail 34,009 tons of processible waste from the Transfer Station to the Resource Recovery Facility, 2,534 fewer tons than shipped in January 1999.

The Transfer Station was closed for a half-day on January 25 and a full day on January 26 due to a severe snowstorm.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

The County and Ogden are working with the contractor for the Nonprocessible Waste facility to resolve contractual issues concerning completion of the roof and siding.

A contract with Atlantic Builders Group, Inc. to initiate additional master plan improvements at the Transfer Station was prepared and sent to the contractor for their review.

Site 2 Property Management – DFS is following maintenance schedules for the properties. Winterizing the Chiswell farmhouse is continuing. A renovation plan is being developed through one of DFS's contractors.

Out-of-County Haul

Brunswick County, Virginia – Approximately 6,709 tons of ash residue and 2,269 tons of nonprocessable waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc. Landfill in Brunswick County, VA. There were 347 tons of dirt, rock and wood recycled at Clean Rock in Hagerstown, MD.

York, Pennsylvania – There were 2,773 tons of ash residue (back hauled by rail from the RRF) shipped from the Transfer Station to American Ash Recycling in York, PA to be recycled into aggregate.

Linden Farm Renovations – The project is substantially complete but some items remain to be completed. Remaining construction activities, managed by DFS, are in progress.

Phase I of the plantings to screen the Compost Facility from the Linden Farm is complete. The County and Sugarloaf are working with a landscape design firm to complete design of Phase II this fall.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste- 240/777-6400

Customer Service- 240/777-6410

Recycling Hotline- 301/590-0046 (Hours of operation: Mon. - Fri., 1:00 - 4:00 PM)

Transfer Station- 301/840-2370

Materials Recovery Facility- 301/417-1447- Maryland Environmental Service

Resource Recovery Facility- 301/349-5685 County Office
301/916-3031 Ogden Martin Systems of Montgomery

Yard Trim Compost Facility- 301/428-8185

Internet for DSWS- www.dpwt.com, then click on Solid Waste Services

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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SOLID WASTE FACTS IN A NUTSHELL

<i>TOPIC OR FACILITY</i>	
Current Recycling Rate in Montgomery County	36%
Recycling Goal by 2000	50%
New Recycling Programs Scheduled for FY 00	Implementation of Residential Mixed Paper Collection March 1999- Textile Recycling Pilot began
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 tpd on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (DCF)	Operations Limited to Receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY 99 tons received- 60,263
# Residences receiving trash collection by County contractors	82,599
# Residences receiving collection of recyclables in blue bins and yard waste collection	195,405
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

GLOSSARY OF ACRONYMS

AAR	American Ash Recycling
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
BOD	Biological Oxygen Demand
CEM	Continuous Emissions Monitoring
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Waste
IFB	Invitation For Bid
IRS	Internal Revenue Financing Administration
HHW	Household Hazardous Service
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
MRF	Materials Recovery Facility
MWH	Mega Watt Hours
NPDES	National Pollution Discharge Elimination System
OMB	Office of Management and Budget
PEPCO	Potomac Electric Power Company
"Red Wiggler"	Handicap Adult Development Group
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
TSS	Total Suspended Solids
WM	Waste Management
YTCF	Yard Trim Composting Facility